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The Dow Chemical Company
Midland, Michigan 48674

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September 28, 2001

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Document Processing Center (TS-790)
Office of Toxic Substances
U.S. Environmental Protection Agency
Ariel Rios Building
1200 Pennsylvania Avenue N.W.
Washington, D.C. 20460
Attn: 8(e) Coordinator

Re: 1,3-butadiene, CASRN 106-99-0

Dear Sir/Madam:

The following information is being submitted by The Dow Chemical Company (Dow) pursuant to current guidance issued by EPA indicating EPA's interpretation of Section 8(e) of the Toxic Substances Control Act. Dow has made no determination as to whether a significant risk of injury to health or the environment is actually presented by the findings.

On June 8, 2001, Dow submitted information concerning the preliminary results from a study where 5 male F344 rats and five groups of 5 male C3B6F1 mice were exposed to 5 ppm of [2,3-¹⁴C]-1,3-butadiene by nose-only inhalation for 6 hours on 5 consecutive days. Immediately following the final inhalation exposure, tissue was sampled from the liver, lung and testes of the test animals and the presence of specific DNA adducts was determined by HPLC/MS techniques.

Preliminary results are now available for the exposure of 5 male F344 rats and five groups of 5 male C3B6F1 mice to 1 ppm of [2,3-¹⁴C]-1,3-butadiene by nose-only inhalation for 6 hours on 5 consecutive days. All other conditions described in the June 8, 2001 communication are the same.

As has been published previously for inhalation exposures to higher levels of butadiene (i.e., 20 ppm; 62.5 ppm; 200 ppm; and 625 ppm) and described in the June 8, 2001 communication for repeated exposure to 5 ppm butadiene, detectable levels of trihydroxybutylguanine adducts were present in liver, lung and testicular tissue from the rats and mice.

No written report on these results is yet available. Questions on this study may be directed to the undersigned.

Sincerely,

Linda C. Burgert
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